



Key features

- Current Ranges: 30 A and 300 A AC_{RMS} or ±45 A and 450 A DC
- Measuring Ranges: ±45 A and 450 A dc
- Output Sensitivity: 10 mV/A (40 A) to 1 mV/A (400 A)
- Resolution: ±50 mA (40 A) to ±100 mA (400 A)
- Load Impedance: > 10 k Ohms and £ 100 pF
- Frequency Range (small signal): DC to 20 kHz (- 3 dB)
- Phase Shift below 1 kHz, < 2 degrees
- Temperature Coefficient: ±0.1% of reading / °C
- Power Supply: 9 V Alkaline

Specifications: Fluke i310s Current Probe

Electrical Characteristics		
Current ranges	30 A and 300 A AC rms or ±45 A and 450 A DC	
Measuring ranges	±45 A and 450 A DC	
AC rms or DC	±45 A and 450 A	
Inrush current	600A AC rms MAX	
Output sensitivity	10 mV/A (30 A)	
	1 mV/A (300 A)	
Accuracy (at +23°C)	(30 A range)	±1% of reading ±50 mA

	(300 A range)	±1% of reading ±300 mA
Bandwidth to meet accuracy specification	1 kHz	
Phase shift below 1 kHz	< 2 degrees	
Resolution	±50 mA (30 A)	
	±100 mA (300 A)	
Load impedance	> 10 k Ohms and ≤100 pF	
Conductor position sensitivity	±1.5% relative to centre reading	
Frequency range (small signal)	DC to 20 kHz (-3 dB)	
Phase shift below 1 kHz	< 2°	
Temperature coefficient	±0.1% of reading / °C	
Power supply	9 V Alkaline, MN1604/PP3	
Battery life	30 Hours, low battery indicator	
Working voltage (see Safety Standards section)	300 V AC rms or DC	
General Characteristics		
Maximum conductor size	19 mm diameter	
Output connection	Safety BNC connector	
	Supplied with safety 4mm adaptor	
Output zero	Manual adjust via thumbwheel	
Cable length	2 metres	
Operating temperature range	-10 to +50°C	
Storage temperature range (with battery removed)	-20 to +85°C	
Operating humidity	15% to 85% (non-condensing)	
Weight	250 g	
Safety	IEC 61010-1, Pollution Degree 2	
	IEC 61010-2- 032: CAT III 300V	
	Use of the probe on uninsulated conductors is limited to 300 V ac rms or dc and frequencies below 1 kHz.	
EMC Compatibility	IEC 61326-1: Portable Electromagnetic Environment	

